

G.MILANI S.A.S.

DI TETTONI FABRIZIO & C.

VIA CAVAGLIETTO, 25

28010 - CAVAGLIO D'AGOGNA NO (ITALIA)

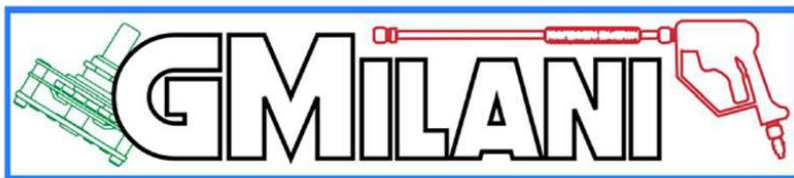
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EQUIPMENT FOR COLD WATER PRESSURE WASHERS TLRF-EC

Features:

Power supply:

between 90 and 250 Vac – 50/60 Hz

Output:

NO clean contacts for contactor control

Control inputs:

low voltage pressure switches

Management:

microprocessor-controlled

Reset:

on-board button and external push-button input

Motor thermal input:

motor thermal protection input

Protection:

fuse against overvoltage

Control inputs:

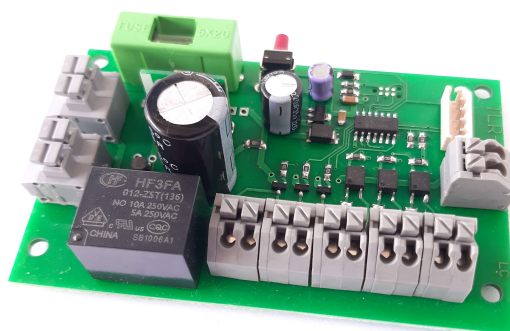
low voltage pressure switches

Electrical connections:

quick-insertion terminal blocks

Mechanical characteristics:

Dimensions: (L x D x H): 90 x 60 x 32 mm, Weight: 60 g



Description:

The new TLRF-EC has been specifically designed for the management and control of cold water pressure washers, expanding the range of our equipment.

The TLRF-EC is fully microprocessor-controlled and can be configured directly by the operator using the TesterTLR software, developed by our company and available on Windows PC.

Each unit is serialized (serial number visible through software), ensuring full traceability of every device.

The operator can configure timings, enable or disable specific functions, and manage both total and partial hour counters.

The board is equipped with an integrated reset button (as well as an external push-button input) which, when enabled via software, allows the end user to reset the maintenance counter.



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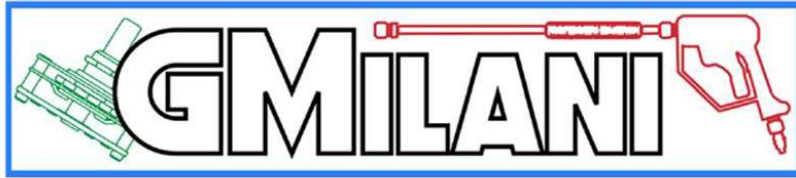
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The system signals, via a dedicated LED output, the need for routine machine maintenance.

The behavior upon reaching the set threshold is configurable:

- **Reset enabled (via software):** the end user can reset the maintenance counter using the reset button.
- **Unlimited operation:** the machine continues operating while indicating that maintenance is required; reset is only possible via software by the service network.
- **Double threshold:** upon reaching the second threshold, the board enters a lock state; unlocking is only possible via software by the service network.

All settings are configurable via the TesterTLR software.

The TLRF-EC is designed for use with a contactor (available directly from us), allowing the same device to be used across the entire range of cold water machines.

The motor thermal input allows the machine to be stopped in case of over-temperature and to signal the intervention via LED.

A different flashing pattern indicates that normal temperature has been restored; switching the unit off and on again after a few seconds returns the system to normal operation.

All thermal events are recorded via a dedicated counter.

Operating characteristics:

Pump motor output controlled via a 10A relay with NO clean contacts for external contactor.

Quick-connect terminal blocks for fast installation.

Tropicalized electronic board for moisture protection.

LED indications:

LED 1 and 2 steady ON: total shutdown due to missed maintenance

LED 1 flashing 1 sec ON / 1 sec OFF: machine inactive

LED 1 and 2 flashing 2 sec ON / 2 sec OFF: pump lock due to continuous operation

LED 2 steady ON: maintenance warning

LED 1 and 2 flashing 0.3 sec ON / 0.3 sec OFF: water shortage alarm

LED 1 and 2 flashing 1 sec ON / 1 sec OFF: micro-leakage alarm (false starts)

LED 1 and 2 alternating flashing 0.5 sec / 0.5 sec: high motor temperature (thermal intervention)

LED 1 and 2 alternating flashing 2 sec / 2 sec: motor back to operating temperature



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